

FIG. 1.

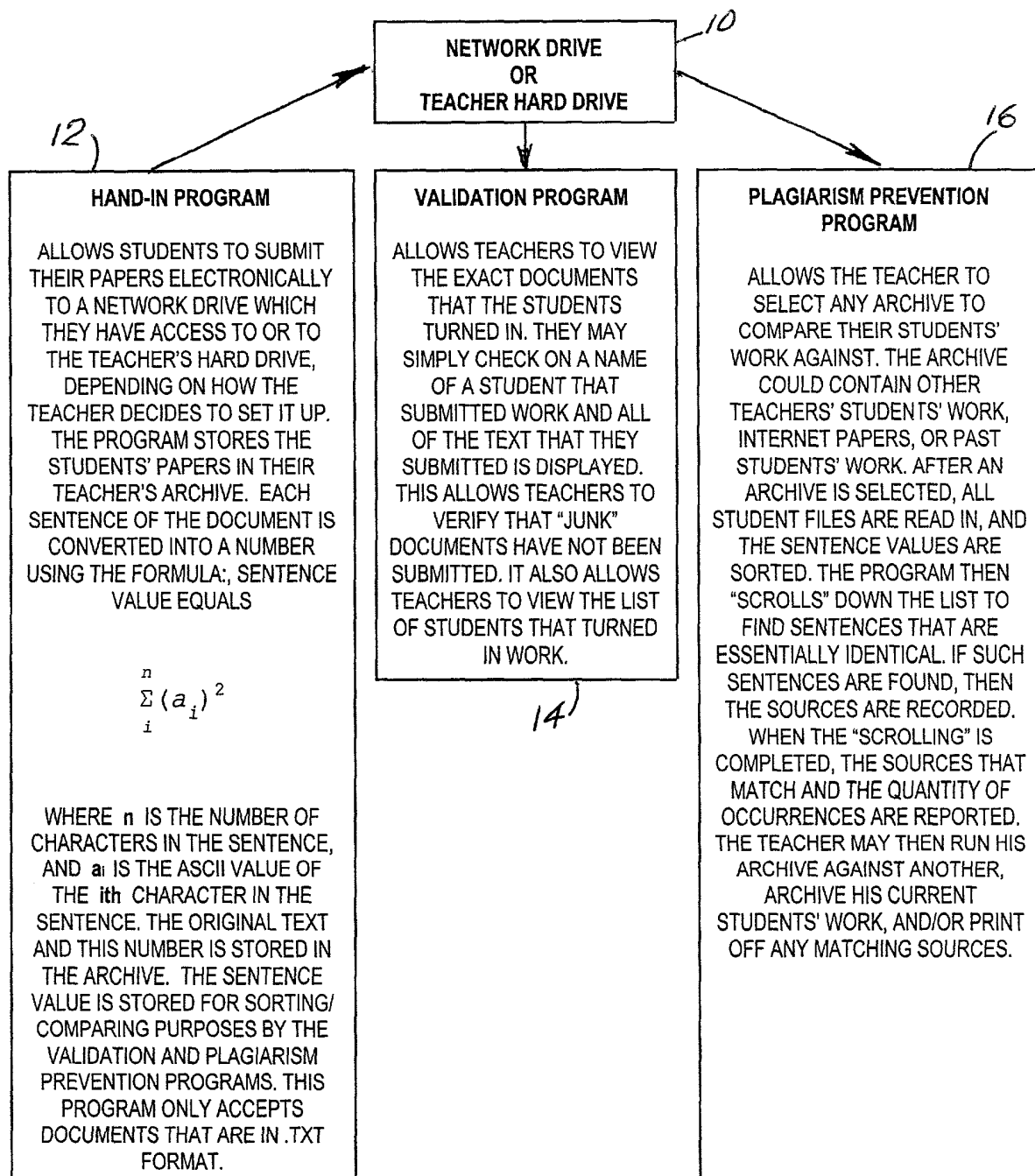


FIG. 2.

HAND-IN PROGRAM¹²

- STUDENT INPUTS PASSWORD AND TEACHER ID²²
- VERIFY PASSWORD AND ID²⁴
- SET CURRENT DIRECTORY BASED ON TEACHER ID²⁶
- ALLOW STUDENT TO SELECT FILE TO HAND IN²⁸
- READ IN STUDENT FILE³⁰
- STORE EACH SENTENCE OF STUDENT FILE IN AN ARRAY OF STRING VARIABLES³²
- TRANSLATE EACH SENTENCE INTO A NUMERICAL VALUE AS FOLLOWS:³⁴
 - SET THE NUMERICAL VALUE OF THE SENTENCE TO ZERO³⁶
 - GET THE ASCII VALUE OF THE CURRENT CHARACTER AND SQUARE IT³⁸
 - ADD THE SQUARED VALUE TO THE NUMERICAL VALUE BEING ACCUMULATED FOR THE SENTENCE⁴⁰
 - REPEAT THE TWO IMMEDIATELY PRECEDING SUBSTEPS THROUGH THE END OF THE SENTENCE⁴²
- CREATE A FILE FOR THE STUDENT IN THE TEACHER'S ARCHIVE BASED ON THE TEACHER ID⁴⁴
 - WRITE THE ORIGINAL SENTENCE ON THE NEXT AVAILABLE LINE OF THE FILE⁴⁶
 - WRITE THE NUMERICAL VALUE OF THE SENTENCE ON THE NEXT AVAILABLE LINE OF THE FILE⁴⁸
- REPEAT THE TWO IMMEDIATELY PRECEDING SUBSTEPS UNTIL ALL SENTENCES AND NUMERICAL VALUES HAVE BEEN WRITTEN TO THE FILE⁴⁹

VALIDATION PROGRAM¹⁴

- TEACHER INPUTS TEACHER ID⁵⁰
- SET CURRENT DIRECTORY BASED ON TEACHER ID⁵²
- READ IN ALL FILES FROM CURRENT DIRECTORY⁵⁴
- DISPLAY A LIST OF ALL STUDENTS THAT TURNED IN WORK⁵⁶
- SELECT A STUDENT'S NAME TO VIEW THE DOCUMENT THAT HE TURNED IN⁵⁸
- DISPLAY THE SELECTED STUDENT'S DOCUMENT IN A RICH TEXT FORMAT BOX⁶⁰

PLAGIARISM PREVENTION PROGRAM¹⁶

- TEACHER INPUTS TEACHER ID⁶²
- SET CURRENT DIRECTORY BASED ON TEACHER ID⁶⁴
- TEACHER SELECTS EITHER OTHER ARCHIVES, OR DOCUMENTS IN THE CURRENT DIRECTORY TURNED IN BY OTHER STUDENTS, FOR COMPARISON⁶⁶
- READ IN EACH DOCUMENT FROM THE SELECTED ARCHIVES OR DIRECTORY⁶⁸
 - ONLY THE NUMERICAL VALUES OF THE SENTENCES ARE READ IN AND STORED AT THIS TIME⁷⁰
- NUMERICAL VALUES OF ALL SENTENCES ARE SORTED USING A COMB-TYPE SORT⁷²
- CHECK FOR ESSENTIALLY IDENTICAL SENTENCES BY SCROLLING THROUGH THE SORTED LIST⁷⁴
 - COMPARE THE CURRENT VALUE WITH THE NEXT VALUE⁷⁶
 - IF ESSENTIALLY THE SAME VALUE, RECORD THAT TWO SENTENCES MATCH, CHECK THE NEXT VALUE⁷⁸
 - IF NOT ESSENTIALLY THE SAME VALUE, NEXT ELEMENT ON THE LIST BECOMES THE CURRENT VALUE⁸⁰
 - REPEAT THE THREE IMMEDIATELY PRECEDING SUBSTEPS UNTIL ENTIRE LIST HAS BEEN CHECKED⁸²
- REPORT THE SOURCES THAT HAD MATCHING SENTENCES ALONG WITH THE NUMBER OF OCCURRENCES⁸⁴
- ALLOW TEACHER TO SELECT ANOTHER ARCHIVE TO COMPARE SENTENCE VALUES WITH⁸⁶
- ALLOW TEACHER TO ARCHIVE AND NAME CURRENT DIRECT DIRECTORY FOR FUTURE USE⁸⁸